AI-3003: Build a natural language processing solution with Azure AI Services Trainer Preparation Guide

Purpose

This course is designed for students performing natural language processing tasks.

Course description

AI-3003 – Build a natural language processing solution with Azure AI Services is intended for software developers wanting to build AI infused applications that leverage Azure AI Services and Azure AI Language. The course will use C# or Python as the programming language.

Learning objectives

After completing this course, students will be able to:

- Design a solution that processes natural language with Azure AI Language.
- Create a solution that analyzes text using preconfigured features.
- Train a model for a custom language solution for question answering and conversational language understanding.
- Understand, synthesize, and translate speech

Audience prerequisites

Before attending this course, students must have:

- Knowledge of Microsoft Azure and ability to navigate the Azure portal

- Knowledge of either C# or Python

- Familiarity with JSON and REST programming semantics

To gain C# or Python skills, complete the free Take your first steps with C# or Take your first steps with Python learning path before attending the course.

If you are new to artificial intelligence, and want an overview of AI capabilities on Azure, consider completing the Azure AI Fundamentals certification before taking this one.

Course Schedule

Day	Estimated Time	Classroom activity
1	20 min	Course Introduction slide deck (time may vary due to the number of student introductions in a given course)
	60 minutes	Analyze text
	45 minutes	Translate text Demo
	60 minutes	Question answering Exercise 2
	70 minutes	Conversational language understanding Exercise 3
	30 minutes	Custom classification and extraction Demo
	75 minutes	Speech Exercise 4
	20 minutes	Conclusion, Q&A

Labs

The labs must be completed within the lab environment provided by your lab hosting provider. Detailed, step-by-step instructions are provided for each lab and presented as part of the UI experience within your lab environment.

At the time the courses were released, the lab instruction had been thoroughly tested and the lab steps were 100% accurate. However, given the nature of Microsoft's cloud products and the fact that Microsoft releases UI updates on a regular basis, it's possible that at some point in time, the UI for a given feature may change so that it no longer matches the lab instruction.